## CLAIMS

What is claimed is:

1 1. A method comprising:

2 obtaining a processor tick counter value from a first processing engine;

3 comparing the obtained processor tick counter value to a processor tick counter value from a

second processing engine; and

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determining a timing offset for synchronizing the first processing engine and the second processing engine using the comparison.

- 2. The method of Claim 1, wherein obtaining a processor tick counter value comprises sending a request message from the second processing engine to the first processing engine, and receiving a reply from the first processing engine at the second processing engine.
- 3. The method of Claim 2, wherein the processor tick counter value at the second processing engine is determined by recording the time at which the request message is sent.
- 4. The method of Claim 2, wherein the processor tick counter value at the second processing engine is determined by recording the time at which the reply is received
- 1 5. The method of Claim 2 further comprising repeating sending a request message,
- 2 recording the time, receiving a reply, recording the time and determining a timing offset until the
- 3 determined timing offsets are within a predetermined variability range.

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The method of Claim 1 further comprising applying a time stamp to a message sent

from the second processor, the time stamp being determined by applying the determined timing

to perform further operations comprising sending a request message from the second processing

counter value comprise further instructions which, when executed by the machine, cause the machine

- 4 engine to the first processing engine, and receiving a reply from the first processing engine at the
- 5 second processing engine.
- 1 11. The medium of Claim 10, further comprising instructions which, when executed by
- 2 the machine, cause the machine to perform further operations comprising determining the processor
- 3 tick counter value at the second processing engine by recording the time at which the request
- 4 message is sent.
- 1 12. The medium of Claim 10, further comprising instructions which, when executed by
- 2 the machine, cause the machine to perform further operations comprising determining the processor
  - tick counter value at the second processing engine by recording the time at which the reply is

received.

- 13. The medium of Claim 9, further comprising instructions which, when executed by the
- machine, cause the machine to perform further operations comprising:
  - obtaining a processor frequency from the first processing engine;
  - obtaining a processor frequency from the second processing engine; and
  - correcting the timing offset for any difference between the first processing engine frequency
- 6 and the second processing engine frequency.
- 1 14. A synchronized computing network comprising:
- 2 a first processing engine having a processor tick counter;
- a second processing engine having a processor tick counter;
- 4 a communications link to send a value from the processor tick counter of the first processing
- 5 engine to the second processing engine at one time; and

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- 15. The network of Claim 14, wherein the first processor sends the processor tick counter value as a reply to a request message from the second processing engine.
- 16. The network of Claim 15, wherein the processor tick counter value at the second processing engine is determined by recording the time at which the request message is sent.
  - 17. The network of Claim 15, wherein the processor tick counter value at the second processing engine is determined by recording the time at which the reply is received
  - 18. The network of Claim 14, wherein the first processing engine and the second processing engine run at different frequencies and wherein the processor corrects the timing offset for the difference between the first processing engine frequency and the second processing engine frequency.
- 19. The network of Claim 14, wherein the processor of the second processing engine applies a time stamp to a message sent from the second processing engine, the time stamp being determined by applying the determined timing offset.
- 1 20. The network of Claim 14, wherein the processor of the second processing engine 2 executes an instruction at a time based on the determined timing offset.

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